

Solar Turbines

A Caterpillar Company

Industry Leader
for Gas Turbine Power

Solar Turbines Incorporated, a subsidiary of Caterpillar Inc., is a leading producer of industrial gas turbines and turbomachinery packages in the 1-to-15 MW (1,500-to-19,500 hp) range. Headquartered in San Diego, California, Solar designs and manufactures its proven line of compressor sets, mechanical-drive packages, and generator sets using state-of-the-art operations certified by DNV to conform to the ISO 9000 series of Quality Systems Standards.

Since Solar entered the industrial gas turbine business in 1960 with the *Saturn*® turbine, Solar's fleet has grown to more than 11,400 units worldwide. These units have logged more than one billion hours in 90 countries in some of the toughest, most challenging arctic, desert, tropical and offshore environments. This unparalleled experience gives testimony to the mature design and wide user acceptance of Solar's products.

Solar's compact, lightweight, and durable gas turbines offer the highest thermal efficiencies in their power classes. Other advantages include ease of transport and installation, long life, high performance, availability, reliability, and low maintainability. Units in the *Centaur*®, *Taurus*™, *Mars*® and *Titan*™ gas turbine families are available with Solar's award-winning, pollution-prevention *SoLoNO_x*™ combustion system.



As of January 2002, customers had ordered or installed nearly 935 *SoLoNO_x* gas turbines and those units already have logged approximately 15 million operating hours. Solar's experience with dry, lean-

Compressor Set Specifications

Gas Turbine Model	Nominal Output		Thermal Efficiency, %	Length		Width		Height		Weight	
	kW	hp		m	ft-in.	m	ft-in.	m	ft-in.	kg	lb
Saturn 20	1185	1590	24.5	8.0	26' 2"	1.8	5' 10"	1.9	6' 4"	20,516	45,230
Centaur 40	3500	4700	27.9	8.9	29' 3"	2.4	8' 0"	2.7	8' 11"	24,855	54,800
Centaur 50	4570	6130	29.9	8.9	29' 3"	2.4	8' 0"	2.7	8' 11"	24,855	54,800
Centaur 50L	4680	6275	30.9	8.9	29' 3"	2.4	8' 0"	2.7	8' 11"	24,855	54,800
Taurus 60	5740	7700	31.9	8.9	29' 3"	2.4	8' 0"	2.7	8' 11"	24,855	54,800
Taurus 70	7690	10,310	34.8	10.4	34' 1"	2.9	9' 8"	3.3	10' 11"	30,390	67,000
Mars 90	9860	13,220	33.1	12.6	41' 3"	2.7	9' 0"	3.4	11' 3"	40,688	89,700
Mars 100	11,190	15,000	33.9	12.6	41' 3"	2.7	9' 0"	3.4	11' 3"	40,688	89,700
Titan 130	14,540	19,500	35.6	13.8	45' 0"	3.0	10' 0"	4.5	14' 10"	52,227	115,140

At ISO conditions: 15°C (59°F), sea level, 60% relative humidity, zero inlet or exhaust duct losses. Natural gas fuel. Single-body compressor skid.

Solar Turbine Manual

Marcel A. Müller



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Power Plant Engineering Larry Drbal,Kayla Westra,Pat Boston,2012-12-06 This comprehensive volume provides a complete authoritative up to date reference for all aspects of power plant engineering Coverage ranges from engineering economics to coal and limestone handling from design processes to plant thermal heat balances Both theory and practical applications are covered giving engineers the information needed to plan design construct upgrade and operate power plants Power Plant Engineering is the culmination of experience of hundreds of engineers from Black Veatch a leading firm in the field for more than 80 years The authors review all major power generating technologies giving particular emphasis to current approaches Special features of the book include More than 1000 figures and lines drawings that illustrate all aspects of the subject Coverage of related components and systems in power plants such as turbine generators feedwater heaters condenser and cooling towers Definitions and analyses of the features of various plant systems Discussions of promising future technologies Power Plant Engineering will be the standard reference in the professional engineer s library as the source of information on steam power plant generation In addition the clear presentation of the material will make this book suitable for use by students preparing to enter the field

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In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Solar Turbine Manual** a literary masterpiece penned by way of a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of people who partake in its reading experience.

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